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mathematical physics and magnetism. Author of "Theory of the Newtonian Potential Function"; "Experiments in Magnetism," and of numerous scientific papers on physics and mathematics. Fellow of the American Academy of Arts and Sciences; Member of the National Academy of Sciences; American Mathematical Society; American Physical Society; Astronomical, and Astrophysical Societies of America, etc.

Harry Fielding Reid, Ph.D., Baltimore. Professor of Geological Physics in Johns Hopkins University, Baltimore. Special agent in charge of earthquake records in U. S. Geological Survey. Professor of Mathematics (1886-89) and of Physics (1889-94) in Case School of Applied Science, Cleveland, Ohio. Author of "Reports on the Highways of Maryland," and of article on glaciers.

James Ford Rhodes, LL.D., Boston, Mass. Historian. Author of "History of the United States from the Compromise of 1850," in seven volumes (1850-77). Recipient of the Loubet Prize of the Berlin Academy of Sciences.

Owen Willams Richardson, M.A. (Cantab.), D.Sc. (Lond.), Princeton, N. J. Professor of Physics in Princeton University. Has published since 1901 important papers on the radioactive discharges from hot bodies. These researches have recently led to the experimental verification of Maxwell's law of distribution, and are still in active progress. His papers have appeared in the Philosophical Transactions and in the London, Edinburgh and Dublin Philosophical Magazine.

#### FOREIGN RESIDENTS

Adolf von Baeyer, Ph.D., M.D., F.R.S., München. Professor of Chemistry in University of München since 1875. Fellow of the Royal Society; Member of the National Academy of Sciences, and of the Academies of Berlin, St. Petersburg, Vienna and Rome, and of the Institute of France. Distinguished for his investigations in the field of organic chemistry. Recipient of the Nobel prize in chemistry in 1905 and was awarded the Davy Medal by the Royal Society in 1881 for his researches on indigo.

Madame S. Curie, Paris. Chemist; Discoverer of Polonium, Radium, etc.

Sir David Gill, K.C.B., Sc.D., LL.D., F.R.S., London. H. M. Astronomer at Cape of Good Hope, 1879-1907. President of the Royal Astronomical Society; Past-president of the British Association for the Advancement of Science; Member of the Academies of St. Petersburg, Ber-

lin, Rome, of the Institute of France and of the National Academy of Sciences. In 1877 proposed and carried out an expedition to Ascension Island to determine the solar parallax by observations of Mars. Author of report of this expedition; of Heliometer Determinations of Stellar Parallax in Southern Hemisphere; Determination of the Solar Parallax and Mass of the Moon from Heliometer Observations of Victoria and Sappho; Gold Medalist of the National Academy of Sciences; of the Astronomical Society of the Pacific; and of the Royal Society.

Edward Meyer, Ph.D., LL.D., Berlin. Professor of Ancient History in the University of Berlin. Leading authority on ancient oriental history. Author of "Geschichte des Altertums"; "Forschungen zu Alter Geschichte"; "Die Israeliten und ihre Nachbarstämme"; and of numerous papers and monographs. German Exchange Professor at Harvard University (1909-10).

Charles Emile Picard, Paris. Vice-president of Academy of Sciences of Paris; Professor of Analyse Supérieure in the University of Paris, and of General Mechanics at l'Ecole Centrale des Arts et Manufactures. Member of the Academies of Berlin, St. Petersburg, Rome, Copenhagen, Turin, Bologna, Boston and Washington; Member of the Royal Societies of Göttingen, Upsala and Helsingfors. Author of *Traité d'Analyse; Théorie des fonctions Algébriques de deux Variables* and of numerous memoirs upon mathematics.

#### THE GEORGE WASHINGTON MEMORIAL BUILDING

THE council of the American Association for the Advancement of Science, at its meeting in Boston in December, gave its approval to the general plan of the George Washington Memorial Association to erect in the city of Washington a building to serve as a home and gathering place for national, patriotic, scientific, educational, literary and art organizations, including the American Association for the Advancement of Science, and authorized the appointment of a committee of five to assist in the effort.

President Michelson appointed as this committee Dr. C. D. Walcott, secretary of the Smithsonian Institution, Dr. Ira Remsen, president of Johns Hopkins University, Dr. William H. Welch, of the Rockefeller Institute, Dr. George M. Kober, of the George-

town University, and Dr. L. O. Howard, permanent secretary of the American Association for the Advancement of Science.

In late March, this committee sent out an appeal to members urging contributions to aid in the erection of the memorial building. The committee reports that to April 19, contributions had been received to the amount of \$4,050. The committee still hopes to receive a considerably larger sum and the general committee of the George Washington Memorial Association is much pleased with the generous and immediate response from the members of the American Association.

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#### SCIENTIFIC NOTES AND NEWS

MEMBERS of the National Academy of Sciences have been elected as follows: Forest Ray Moulton, assistant professor of astronomy in the University of Chicago; William Albert Noyes, professor of chemistry in the University of Illinois; Thomas Burr Osborne, research chemist in the Connecticut Agricultural Experiment Station; Charles Schuchert, professor of paleontology in Yale University; Douglas Houghton Campbell, professor of botany in Stanford University; Jacques Loeb, professor of physiology in the University of California, who will become head of a department in the Rockefeller Institute for Medical Research, and John Dewey, professor of philosophy in Columbia University. Dr. George E. Hale, director of the Mount Wilson Solar Observatory of the Carnegie Institution, has been elected foreign secretary of the academy, to succeed the late Mr. Alexander Agassiz. The Draper medal has been conferred on Dr. C. G. Abbot, director of the Astrophysical Observatory of the Smithsonian Institution.

DR. JOHN TROWBRIDGE, Rumford professor and lecturer on the application of science to the useful arts, at Harvard University, and director of the Jefferson Physical Laboratory, will retire from active service at the close of the present academic year.

DR. LEO LOEB has resigned his position as assistant professor of experimental pathology in the University of Pennsylvania and will

take up the directorship of the pathological department of the St. Louis Skin and Cancer Hospital on September 1 of the present year. Dr. Moyer S. Fleisher, of Philadelphia, accompanies him as one of his assistants.

PROFESSOR ROBERT KOCH, who has been seriously ill with pneumonia at Berlin, is now making favorable progress.

DR. BASHFORD DEAN, Columbia University, has lately received a silver cup from the Emperor of Japan in recognition of his services to Japanese zoology.

THE Linnean Society will award the Linnean gold medal to Professor Georg Ossian Sars, professor of zoology in the University of Christiania.

PROFESSOR F. W. PUTNAM, of Harvard University, has been elected a corresponding member of the Società Romana di Anthropologia, of Rome.

M. CHARLES LALLEMAND has been elected a member of the Paris Academy of Sciences in the section of geography and navigation in the place of the late Bouquet de la Grye.

SIR ERNEST SHACKLETON, the Antarctic explorer, was presented with a gold medal by the Geographical Society of Pennsylvania at a dinner given in his honor at Philadelphia on April 22. Rear Admiral George Melville and Amos Bonsall, a survivor of the Kane Arctic expedition, were among the speakers.

MCGILL UNIVERSITY will confer on Professor Louis A. Herdt, head of the department of electrical engineering, the degree of doctor of science.

DR. M. P. RAVENEL, head of the department of bacteriology of the University of Wisconsin, and of the State Hygienic Laboratory, is a member of the American committee to report at the Second International Congress of Alimentary Hygiene at Brussels, Belgium, October 4, on bacteriological aspects of the hygiene of nutrition.

THE Academy of Natural Sciences of Philadelphia has appointed Professor J. C. Arthur, of Purdue University, a delegate to represent it at the third international Botanical Congress.